![Chipsmall logo]

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

PHŒNIX CONTACT

Surge protection device - TTC-6-GDT-D-60AC-UT-I - 2906846

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Coarse surge protection with integrated status indicator for a 2-wire floating signal circuit.

Why buy this product

☑ Space-saving installation due to the narrow overall width of 6.2 mm

☑ Signaling without additional auxiliary power, thanks to the mechanical status indicator

☑ Optional remote signaling module monitors up to 40 items, without additional wiring

☑ Safe behavior in the event of overload, thanks to the integrated disconnect device

☑ Coarse surge protection by means of gas discharge tube

RoHS | 2A IEC | 60V IEC | 2,5 mm² | IP20 | SIL evaluated IEC 61508

Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4055626137025

Technical data

Dimensions

Height	92 mm
Width	6.2 mm
Depth	69.5 mm (incl. DIN rail 7.5 mm)

Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 4000 m (amsl (above mean sea level))
Degree of protection	IP20 (with end cover)

General

Surge protection device - TTC-6-GDT-D-60AC-UT-I - 2906846

Technical data

General

Housing material	PBT
Flammability rating according to UL 94	V-0
Color	traffic grey A RAL 7042
Mounting type	DIN rail: 35 mm
Type	DIN rail module, one-piece
Direction of action	Line-Earth Ground

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U_N	60 V AC
Maximum continuous voltage U_C	75 V AC
Rated current	2 A (60 °C)
Operating effective current I_C at U_C	≤ 1 µA
Nominal discharge current I_n (8/20) µs (line-line)	5 kA
Pulse discharge current I_{imp} (10/350) µs (line-line)	0.5 kA
Voltage protection level U_p (line-line)	≤ 800 V (C1 - 2 kV)
	≤ 1 kV (C2 - 10 kV)
	≤ 800 V (C3 - 25 A)
	≤ 900 V (C3 - 100 A)
Response time t_A (line-line)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 8 MHz / 150 Ω)
	typ. 0.3 dB (≤ 30 MHz / 50 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 130 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 25 MHz
Capacity (line-line)	5 pF
Resistance in series	≤ 100 mΩ
Surge protection fault message	optical
Impulse durability (line-line)	C1 - 1 kA
	C2 - 5 kA
	C3 - 100 A
	D1 - 500 A
Pulse reset time (line-line)	≤ 1 ms

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm ... 0.6 Nm
Stripping length	8 mm

Surge protection device - TTC-6-GDT-D-60AC-UT-I - 2906846

Technical data

Connection data

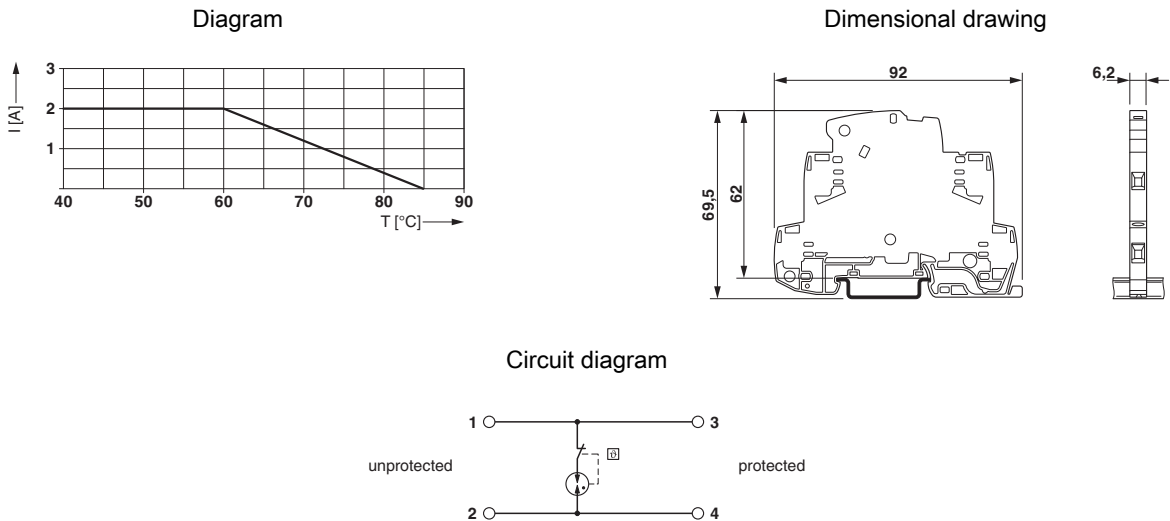| Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section AWG	24 ... 12

Standards and Regulations

Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012
	EN 61643-21 2001 + A1:2009 + A2:2013

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Drawings

Diagram

Dimensional drawing

Circuit diagram

Approvals

Approvals

Approvals

UL Listed / CSA / CSAus / DNV GL / cCSAus

Ex Approvals

Approval details

Surge protection device - TTC-6-GDT-D-60AC-UT-I - 2906846

Approvals

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
CSA		http://www.csagroup.org/services-industries/product-listing/	70136717
CSAus		http://www.csagroup.org/services-industries/product-listing/	70136717
DNV GL		http://exchange.dnv.com/tari/	TAE000027G
cCSAus		http://www.csagroup.org/services-industries/product-listing/	

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
http://www.phoenixcontact.com